Courage to Soar							
2004 Mathematics							
Curriculum Standards							
Kansas Mathematic	s						
Grade 3							
Activity/Lesson	State	Standards					
Soaring Higher	KS	MA.3.1.1.K2.a	Compares and orders whole numbers from 0 through 10,000 with and without the use of concrete objects				
The Flight Timeline	KS	MA.3.2.4.K1.h	Knows, explains, and uses mathematical models to represent mathematical concepts, procedures, and relationships. Mathematical models include (graphs using concrete objects, representational objects, or abstract representations, pictographs, frequency tables, horizontal and vertical bar graphs, Venn diagrams or other pictorial displays, line plots, charts, and tables to organize and display data)				
The Flight Timeline	KS	MA.3.3.4.K1	Uses a number line (horizontal/vertical) to model the basic multiplication facts through the 5s and the multiplication facts of the 10s.				
Having the Right Stuff	KS	MA.3.2.4.K1.h	Knows, explains, and uses mathematical models to represent mathematical concepts, procedures, and relationships. Mathematical models include (graphs using concrete objects, representational objects, or abstract representations, pictographs, frequency tables, horizontal and vertical bar graphs, Venn diagrams or other pictorial displays, line plots, charts, and tables to organize and display data)				
Having the Right Stuff	KS	MA.3.2.4.K1.i	Knows, explains, and uses mathematical models to represent mathematical concepts, procedures, and relationships. Mathematical models include (Venn diagrams to sort data and show relationships) Organizes, displays, and reads numerical				
Having the Right Stuff	KS	MA.3.4.2.K1.e	(quantitative) and non-numerical (qualitative) data in a clear, organized, and accurate manner including a title, labels, categories, and whole number intervals using these data displays (Venn diagrams or other pictorial displays, e.g., glyphs)				

			Selects, explains the selection of, and uses
			·
			measurement tools, units of measure, and
			degree of accuracy appropriate for a given
			situation to measure length width, and height
			to the nearest half inch, inch, foot, and yard;
Flying a Styrofoam			and to the nearest whole unit of nonstandard
Plane	KS	MA.3.3.2.K3.a	unit
			Selects, explains the selection of, and uses
			measurement tools, units of measure, and
			degree of accuracy appropriate for a given
Flying a Styrofoam			situation to measure length, width, and
Plane	KS	MA.3.3.2.K3.b	height to the nearest centimeter and meter
- I I I I I I I I I I I I I I I I I I I			noight to the hearest continueter and motor
			Knows, explains, and uses mathematical
			models to represent mathematical concepts,
Looking for			procedures, and relationships. Mathematical
Answers:A research			models include (Venn diagrams to sort data
project	KS	MA.3.2.4.K1.i	and show relationships)
p. sjeer			Finds these statistical measures of a data
			set with less than ten data points using
			whole numbers from 0 through 1,000
Controlling the Plane	KS	MA.3.4.2.K3.b	(range,)
Controlling the Fiance	110	W/A.O.4.Z.110.D	Finds these statistical measures of a data
			set with less than ten data points using
			whole numbers from 0 through 1,000
			(median when data set has an odd number
Controlling the Plane	KC	MA.3.4.2.K3.d	of data points)
Controlling the Flane	No	WA.3.4.2.N3.u	oi data points)
		Courage to So	par
		2004 Mathema	
		urriculum Stan	dards
Kansas Mathematic	S		
Grade 4	Otata	Ot a mala mala	
Activity/Lesson	State	Standards	Compares and orders whole numbers from 0
Soaring Higher	KS	MA.4.1.1.K2.a	Compares and orders whole numbers from 0 through 100.000
Soaning riighei	NO	IVIA.4.1.1.NZ.d	Organizes, displays, and reads numerical
			(quantitative) and non-numerical (qualitative)
			data in a clear, organized, and accurate
			<u> </u>
			manner including a title, labels, categories,
Commission of the last	140	NAA A A O 164 1	and whole number intervals using these data
Soaring Higher	KS	MA.4.4.2.K1.h	displays (line graphs)
The Flight Time?	140	NAA 4 4 4 100	Compares and orders whole numbers from 0
The Flight Timeline	KS	MA.4.1.1.K2.a	through 100,000

	1	I	Manus and in a surdice and the matical
			Knows, explains, and uses mathematical
			models to represent mathematical concepts,
			procedures, and relationships. Mathematical
			models include (process models (concrete
			objects, pictures, diagrams, number lines,
			hundred charts, measurement tools,
			multiplication arrays, division sets, or
			coordinate planes/grids) to model
			computational procedures, mathematical
The Flight Timeline	KS	MA.4.2.4.K1.a	relationships, and equations)
i i i i i i i i i i i i i i i i i i i			Knows, explains, and uses mathematical
			models to represent mathematical concepts,
			procedures, and relationships. Mathematical
			models include (graphs using concrete
			objects, pictographs, frequency tables,
			horizontal and vertical bar graphs, line
			graphs, circle graphs, Venn diagrams, line
			plots, charts, and tables to organize and
The Flight Timeline	KS	MA.4.2.4.K1.h	display data)
			Knows, explains, and uses mathematical
			models to represent mathematical concepts,
			procedures, and relationships. Mathematical
			models include (graphs using concrete
			objects, pictographs, frequency tables,
			horizontal and vertical bar graphs, line
			graphs, circle graphs, Venn diagrams, line
Having the Right			plots, charts, and tables to organize and
Stuff	KS	MA.4.2.4.K1.h	display data)
Otan		100 0 1.2. 1.101.11	alopiay data)
			Knows, explains, and uses mathematical
			models to represent mathematical concepts,
Llouise at the Dialet			procedures, and relationships. Mathematical
Having the Right	140		models include (Venn diagrams to sort data
Stuff	KS	MA.4.2.4.K1.i	and to show relationships)
			Selects, explains the selection of, and uses
			measurement tools, units of measure, and
			degree of accuracy appropriate for a given
			situation to measure length, width, and
Flying a Styrofoam			height to the nearest fourth of an inch or to
Plane	KS	MA.4.3.2.K2.a	the nearest centimeter
Looking for			Collects data using different techniques
Answers:A research			(observations, polls, surveys, interviews, or
project	KS	MA.4.4.2.K2	random sampling) and explains the results.
7	-		Knows, explains, and uses mathematical
			models to represent mathematical concepts,
			procedures, and relationships. Mathematical
			models include (graphs using concrete
			objects, pictographs, frequency tables,
			horizontal and vertical bar graphs, line
1	I	1	graphs, circle graphs, Venn diagrams, line
			9 '
Controlling the Plane		MA.4.2.4.K1.h	plots, charts, and tables to organize and display data)

			Identifies explains and calculates or finds
			Identifies, explains, and calculates or finds
			these statistical measures of a data set with
			less than ten whole number data points
			using whole numbers from 0 through 1,000
			(mean when data set has a whole number
Controlling the Plane	KS	MA.4.4.2.K3.e	mean)
		Courage to So 2004 Mathema	
		Curriculum Stan	
Kansas Mathematic	e	Curriculum Stan	ualus
Grade 5			
Activity/Lesson	State	Standards	
/ totivity/20000ii	Otato	Otanida do	Organizes, displays, and reads numerical
			(quantitative) and non-numerical (qualitative)
			data in a clear, organized, and accurate
			manner including a title, labels, categories,
			and whole number and decimal intervals
			using these data displays (bar and line
Cooring Higher	KS	MA.5.4.2.K1.d	. , ,
Soaring Higher	NO	IVIA.3.4.2.N1.u	graphs,) Locates and plots points on a number line
			l · · · ·
The Charles Time alice a	140	NAA 5 0 4 1/4	(vertical/horizontal) using integers (positive
The Flight Timeline	KS	MA.5.3.4.K1	and negative whole numbers).
			Student demonstrates number sense for
l <u>_</u>			integers, fractions, decimals, and money in a
Having the Right			variety of situations and compares and
Stuff	KS	MA.5.1.1.K2.a	orders integers,
			Knows syntains and uses mathematical
			Knows, explains, and uses mathematical
			models to represent mathematical concepts,
lle te de Bisto			procedures, and relationships. Mathematical
Having the Right	140		models include (Venn diagrams to sort data
Stuff	KS	MA.5.2.4.K1.k	and to show relationships)
			Determines and uses whole number
			approximations (estimations) for length,
			width, weight, volume, temperature, time,
Flying a Styrofoam			perimeter, and area using standard and
Plane	KS	MA.5.3.2.K1	nonstandard units of measure.
			Collects data using different techniques
Looking for			(observations, polls, tallying, interviews,
Answers:A research			surveys, or random sampling) and explains
project	KS	MA.5.4.2.K2	the results.
			Organizes, displays, and reads numerical
			(quantitative) and non-numerical (qualitative)
			data in a clear, organized, and accurate
			manner including a title, labels, categories,
			and whole number and decimal intervals
			using these data displays (bar and line
Controlling the Plane	KS	MA.5.4.2.K1.d	graphs,)